CLAIMS

What is claimed is:

1. A method for populating a database, the method comprising:

providing a database having a schema;

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inferring from the schema dependencies among a fact table and related dimension tables; and

inserting, in accordance with the dependencies, rows of data into the fact table and rows of data into the dimension tables.

2. The method of claim 1 wherein inferring dependencies further comprises:

selecting from metadata describing a schema for the database expressions of dependencies; and

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inserting the expressions of dependencies into a dependency list.

3. The method of claim 1 wherein inserting rows of data further comprises:

determining whether related dimension data exists for each foreign key in each row of data inserted into the fact table; and

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for each foreign key for which related dimension data does not exist, inserting

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a row of dimension data into a dimension table related to the fact table through the foreign key.

4. The method of claim 1 wherein inserting rows of data further comprises:

determining whether related dimension data exists for each foreign key in each row of data inserted into a first dimension table; and

for each foreign key for which related dimension data does not exist, inserting a row of dimension data into a second dimension table related to the first dimension table through the foreign key.

5. The method of claim 1 wherein inserting rows of data further comprises:

reading the rows of data from a first database, the first database comprising dependencies among tables in the database; and

inserting rows of data into a second database, the second database comprising at least the same dependencies as in the first database.

6. The method of claim 1 wherein a dependency comprises a rule for the database, enforced by a database management system, that a first record in a first table must exist in the database before a second record in a second table may be inserted in the database.

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7.	A system for populating a database, the system comprising:
	means for providing a database having a schema;

5 means for inferring from the schema dependencies among a fact table and related dimension tables; and

> means for inserting, in accordance with the dependencies, rows of data into the fact table and rows of data into the dimension tables.

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- 8. The system of claim 7 wherein means for inferring dependencies further comprises:
- means for selecting from metadata describing a schema for the database 5 expressions of dependencies; and
 - means for inserting the expressions of dependencies into a dependency list.
 - 9. The system of claim 7 wherein means for inserting rows of data further comprises:
- means for determining whether related dimension data exists for each foreign 5 key in each row of data inserted into the fact table; and

for each foreign key for which related dimension data does not exist, means for inserting a row of dimension data into a dimension table related to the fact table through the foreign key.

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- 10. The system of claim 7 wherein means for inserting rows of data further comprises:
- means for determining whether related dimension data exists for each foreign key in each row of data inserted into a first dimension table; and

for each foreign key for which related dimension data does not exist, means for inserting a row of dimension data into a second dimension table related to the first dimension table through the foreign key.

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- 11. The system of claim 7 wherein means for inserting rows of data further comprises:
- means for reading the rows of data from a first database, the first database comprising dependencies among tables in the database; and
 - means for inserting rows of data into a second database, the second database comprising at least the same dependencies as in the first database.
- 10 12. The system of claim 7 wherein a dependency comprises a rule for the database, enforced by a database management system, that a first record in a first table must exist in the database before a second record in a second table may be inserted in the database.

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13.	A computer program product for populating a database, the computer program
	product comprising:

a recording medium;

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means, recorded on the recording medium, for providing a database having a schema;

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means, recorded on the recording medium, for inferring from the schema dependencies among a fact table and related dimension tables; and

means, recorded on the recording medium, for inserting, in accordance with the dependencies, rows of data into the fact table and rows of data into the dimension tables.

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14. The computer program product of claim 13 wherein means for inferring dependencies further comprises:

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describing a schema for the database expressions of dependencies; and means, recorded on the recording medium, for inserting the expressions of

means, recorded on the recording medium, for selecting from metadata

dependencies into a dependency list.

15. The computer program product of claim 13 wherein means for inserting rows of data further comprises:

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means, recorded on the recording medium, for determining whether related

dimension data exists for each foreign key in each row of data inserted into the
fact table; and

for each foreign key for which related dimension data does not exist, means, recorded on the recording medium, for inserting a row of dimension data into a dimension table related to the fact table through the foreign key.

- 16. The computer program product of claim 13 wherein means for inserting rows of data further comprises:
- means, recorded on the recording medium, for determining whether related
 dimension data exists for each foreign key in each row of data inserted into a
 first dimension table; and

for each foreign key for which related dimension data does not exist, means, recorded on the recording medium, for inserting a row of dimension data into a second dimension table related to the first dimension table through the foreign key.

- 17. The computer program product of claim 13 wherein means for inserting rows of data further comprises:
- means, recorded on the recording medium, for reading the rows of data from a first database, the first database comprising dependencies among tables in the database; and

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means, recorded on the recording medium, for inserting rows of data into a second database, the second database comprising at least the same dependencies as in the first database.

18. The computer program product of claim 13 wherein a dependency comprises a rule for the database, enforced by a database management system, that a first record in a first table must exist in the database before a second record in a second table may be inserted in the database.